

16. MINIMUM & MAXIMUM DIMENSIONS SHOWN SHALL BE ADHERED TO AT CONSTRUCTION FINAL REGISTRATION FOR MAINTENANCE HAND BACK.

17. MINIMUM REACH TO BE CALCULATED ON A CASE BY CASE BASIS.

- 13.FOR PREVIOUS REVISIONS OF
DRAWING AND NOT FOR FUTURE
ALLOCATION STYLES (1MN & 2MN)
REFER TO SHEETS 5 TO 7.
- 14.STATIC ELECTRICAL CLEARANCE
FROM LIVE SIDE INSULATOR COLLAR
IN ACCORDANCE WITH BS EN
50119:2020 FIGURE 2.
- 15.HEEL SETTING CAN BE ADJUSTED ON
THIS TUBE IN ACCORDANCE WITH THE
UKMS INSTALLATION MANUAL
141667-FAF-MAN-EOH-000003 ISSUE
2.0, SECTION 12.10.

10. FOR CATENARY SUPPORT DETAILS SEE SHEET 3 AND FOR ALLOCATION REFERENCES SEE SHEET 4.
11. GRADIENT OF TOP TUBE TO BE STEEPER THAN 1:5 (FOR EXAMPLE 1:3).
12. 450mm MIN. ENCUMBRANCE FOR ALUMINIUM (AWAC) 5/2/3.95mm CATENARY CLAMP FITTING. REFER TO TABLE 3 ON SHEET 4.

7. FOR TORQUE SETTINGS REFER TO INSTALLATION MANUAL.
8. CATENARY WIRE TO BE INSTALLED IN ACCORDANCE WITH DETAILS 'A' TO 'D'; ON SHEET 3.
9. STATIC CLEARANCES LESS THAN 370mm DO NOT PROVIDE BASIC INSULATION IN ACCORDANCE WITH RAILWAY GROUP STANDARD GL/RT1210.

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.
2. THE STAGGER VALUES ARE TO BE DESIGNED IN ACCORDANCE WITH THE UKMS ALLOCATION DESIGN MANUAL, 141667-FAF-MAN-EOH-000002 ISSUE 2.1, SECTION 12.7.
3. IN ALL CASES THE CATENARY SUPPORT TUBE IS TO BE INSTALLED IN A HORIZONTAL POSITION.
4. THE STAGGER DIFFERENCE BETWEEN THE CATENARY AND CONTACT WIRE TO BE MAINTAINED IN ACCORDANCE WITH THE UKMS MAINTENANCE MANUAL 141667-FAF-MAN-EOH-000004 ISSUE 2.2, SECTION 10.3.
5. MAXIMUM WORKING LOAD ON REGISTRATION ARM AND FITTINGS (P_c) = 3kN; HOWEVER ACTUAL WORKING LOAD IS LIMITED BY CANTILEVER DEFLECTION AT 0.9kN.
6. MAXIMUM WORKING LOAD (ACROSS TRACK) ON COPPER CATENARY WIRE (ITEM 20) (P_m) = 2.7kN. MAXIMUM WORKING LOAD ON ALUMINIUM (AWAC) 5/2/3.95mm CATENARY WIRE (ITEM 23) (P_m) = 6kN.

01	05/11/21	R00 DETAILS MOVED TO NEW SHEET 5.	TM	MP	HF
Rev	Date	Description of Revisions	Drawn	Chkd	App
Status					

APPROVED



Infrastructure Design Group
Electrification and Plant
Waterloo General Offices
Waterloo Station, London SE1 8SW

Project	
---------	--

UK MASTER SERIES

Drawing Title

UNDER BOOM LOW ENCUMBRANCE
SUPPORT AND REGISTRATION
ASSEMBLY
ENCUMBRANCE 185mm - 800mm

Designed	J.FISHER	Signed	JF	Date	19/07/2
Drawn	T.MAULE	Signed	TM	Date	19/07/2
Checked	M.POWER	Signed	MP	Date	26/07/2
Approved	H.PASCALL	Signed	HP	Date	05/11/2

Scale(s) 1:20

Alternative Reference

Drawing Number

MS/C99/T10/A3

Sheet	01 of 07
Revision	01

Sheet Size A3 297 x 420

